UTILISATION OF CONTRACEPTIVE SERVICES AMONG PEOPLE LIVING AVITH HIWAIDS AT THE PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF CLINIC ADLOYO MATERNITY TEACHING HOSPITAL, IBADAN, NIGERIA

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CERTIFICATION

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DEDICATION

This project is dedicated to Almighty Allah for I lis protection, blessings and mercies throughout the course of my study to enable me to produce this work.

Also to my family for their moral spiritual and financial support, may God continue to bless us all (Amen)

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ABSTRACT

Utilisation of contraceptive services especially among People Living With HIV/AIDS (PLWHA) has emerged as a means to prevent unintended pregnancy and transmission of HIV Previous studies have not adequately investigated the use of contraceptives among PLWHA Lack of contraceptive utilisation has contributed to the rise in unintended pregnancies and mother-to child transmission of the virus. This study was therefore designed to investigate the utilisation of contraceptive services among PLWHA at the President's Emergency Plan for AIDS Relief (PEPFAR) clinic, Adeoyo Maternity Teaching Hospital, Ibadan, Nigeria.

The study was descriptive cross-sectional in design using a systematic random sampling technique. A total of 365 respondents were interviewed using a semi-structured interviewer-administered questionnaire which included socio-demographic characteristics, 18-point knowledge and 10-point perception of contraception scales. Knowledge scores \$6, >6-12 and >12 were categorised as poor, fair and good respectively, while perception scores \$5 and >5 were rated as negative and positive respectively. Other contents were use of contraceptives, and factors hindering and promoting utilisation of contraceptive services. Data were analysed using descriptive statistics. Chi-square test and logistic regression at p=0.05

Age of respondents was 36.64 8.9 years and 82.3% were females. Eighty percent were married and 8.2%, 22.7%, 45.8% and 23.3% had informal, printary, secondary and tertiary education respectively. Sixty-one percent were from monogamous families. Respondents' knowledge score was 10.15±5.06. Respondents who had poor, fair and good knowledge of contraceptives were 31.8%, 38.4% and 29.8% respectively. Perception score of respondents was 8.03±1.94. Respondents with positive and negative perceptions of contraceptive were 6.0% and 94.0% respectively. All respondents had heard about contraceptives and 32.4% received information from health workers. Seventy six percent reported that they had ever used contraceptives of which 227 (57.0%) were current users. Condom (32.1%) was the most commonly used contraceptive Factors hindering utilisation of contraceptive services were fear of confidentiality (55.9%) and fear of anti-retroviral interaction with contraceptive drugs (27.4%). Factors promoting utilisation of contraceptive services included child spacing (21.6%), prevention of unintended pregnancy (14.8%) and limiting child bearing (11.2%). Respondents level of education was significantly related to knowledge of contraceptives. Similarly, being female

(83.3%) and monogamous family type (61.1%) were significantly related to current contraceptive use Respondents' with primary education were more likely to have poor knowledge of contraceptives compared with those that had secondary and tertiary education (OR_3.44; 95% CI: 1.627.29). Male respondents were less likely to utilise contraceptive services compared to their female counterparts (OR = 0.12; 95% CI: 0.04-0.36).

Respondents had poor knowledge of contraception and fear of confidentiality was a major factor hindering utilisation of contraceptive services. It is therefore recommended that public enlightenment and health education strategies are needed to improve knowledge and promote adoption of contraceptive services.

Keywords: Contraceptive use, Unintended pregnancy, Child bearing, People Living With

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LIST OF ACRONYMIS

HIV Human Immunodeficiency Virus

AIDS Acquired Immune Deficiency Syndrome

UNAIDS United Nations on AIDS

ARV - Antiretroviral

WHO - World Health Organisation

PMICT - Prevention of mother to child transmission

PLWIA People Living With HIV/AIDS

INTRODUCTION

1.1 Background of the study

Acquired Immune Deliciency Syndrome (AIDS) related illnesses remain one of the leading causes of death globally. According to the World Health Organisation (WHO), there were approximately 35 million people worldwide living with HIV/AIDS in 2013. Since 1981 when the first cases were reported, around 78 million [71 million-87 million] people have become infected with the Human Immunodeficiency Virus (HIV) and 39 million [35 million-43 million] people have died of Acquired Immune Deficiency Syndrome(AIDS)-related illnesses (UNAIDS, 2013).

The vast majority of people living with HIV are found in low and middle income countries. According to WHO (2013), sub-Saharan Africa is the most affected region, with 24.7 nullion people living with HIV as at 2013. Seventy-one percent of nll people who are living with HIV in the world live in this region. Of these, 3.2 million are children aged less than 15 years. According to WHO (2013), an estimated 2.1 million individuals worldwide became newly infected with HIV in 2013. This includes over 240,000 children (<15 years). Most of these children live in sub-Saharan Africa and were infected by their HIV-positive unothers during pregnancy, childbirth or breastfeeding. HIV is one of the world's leading infectious diseases. According to WHO, an estimated 39 million people have died since the first cases were reported in 1981 and 1.5 million people died of AIDS related causes in 2013.

About 67% of people living with HIV are in sub-Saharan Africa, the region worst affected by AIDS (WHO, 2009). These include 90% of the world's children below 15 years living with the virus. The key regional dynamics shows that heterosexual intercourse remains the prinary mide of HIV transmission in sub-Saharan Africa with extensive ongoing transmission to newborns and breast-fed babies. Family planning is one aspect of reproductive health where linkages with HIV programmes are especially important. Integrating family planning services and HIV prevention, treatment, and care services provides an opportunity to increase access

to contraception among HIV clients who do not want to become pregnant, or to ensure a safe and healthy pregnancy and birth for those who wish to have a child (WHO, 2009).

In view of the fact that People Living with HIV/AIDS (PLWHA) desire sexual intercourse as well as children, the use of family planning is of utmost importance to them. The World Health Organisation (1995) defined family planning as a way of thinking and living that is adopted voluntarily based on knowledge, attitude, responsible decision making by individuals or couples in order to promote the health and welfare of the family and contribute to the advancement of the community.

Studying family planning utilisation helps to focus on the subset of HIV-infected people who are most likely to have children by choice. They are an important subpopulation whose counselling and service needs differ substantially from other people Family planning utilisation is important to women and men with HIV/AIDS and other sexually transmitted infections who do not want to risk infecting their partners and children (UNAIDS, 2008). As highlighted by the United Nations, to prevent unintended pregnancies among HIV-positive women, the provision of quality family planning services is important. Family planning services together with preventing primary HIV infection in women have been reported to significantly reduce the proportion of infants infected with HIV by 35-45%. The Prevention of Mother to Child Transmission (PMTCT) starts with preventing the mother from having an unwanted pregnancy. This emphasizes the public health significance of providing effective

Family planning has been shown to play a pivotal role in population growth, poverty reduction and human development. Moreover, the desire of people living with IIIV/AIDS (PLWIA) to have children in the future has implications for the transmission of IIIV to sexual partners and newborns. Some studies have shown that a high proportion of people living with IIIV/AIDS desire to have a child/children.

family planning services (WHO, 2006).

In a study carried out in the USA on 1421 IIIV infected men and women, 28-29% of those receiving medical care were found to desire children in the future (Chenet al. 2001). In Cape Town, South Africa, a study found that 57% of males who were living with IIIV and on antiretrovital therapy and follow-up care and 45% of women living with IIIV desired or were

open to the possibility of having a child (Fertility intentions and reproductive health care needs of people living with HIV in Cape Town, South Africa, 2009).

planning methods; common factors hindering the use of family planning include: cost and limited access to quality family planning services among others. Some norms such as early child bearing, preference for large family sizes that is encouraged by the strong desire to sustain lineage and the believe that many children provide old age security remains barriers to contraceptive use (WHO, 2006). When health care programs provide services in ways that meet multiple clients needs, satisfaction with the service delivery increases and the scarce linancial and human resources are better utilized (Family Health International, 2008).

1.2 Statement of Problem

Female PLWHA face a dilemma in expressing their sexuality on one hand. They want to have children but at the same time they may be concerned about re-infecting their infants. The problem may be more serious among sero-discordant couples. With the observation of the project writer over a period of two years it is noted that one out of every ten clients will not take up family planning because of their HIV status. Some other studies conducted in the past focused on assessing the knowledge and integration of Family planning methods to the care of PLWHA but none on utilisation, hence the need to conduct this study.

In studies of women with HIV infection, approximately 70% are sexually active, effective contraceptive use is variable, and unplanned pregnancy frequently reported. In a cohort of littsh HIV positive women only 57% of the sexually active women used a reliable method of contraception. A French study of sexually active women showed 20% was using no contraception.

According to reports from the Ministry of Health in Uganda, (2005), over 1.4 million women including l'LWHA desire to delay pregnancy, space their children, or stop childbeauing for various reasons but do not use any l'amily l'hanning method due to cost of family planning services and accessibility. The Uganda HIV/AIDS Sero behavioural survey (2006) report indicated that consistent condom use among sexually active PLWHA is at only 20% in The AIDS Support Organisation (TASO), 60% of PLWHA are sexually active and of these, those

20% (TASO, 2006).

The low use of modern Family Planning options other than condoms among PLWHA contributes to a rise in pregnancies that are unintended, new adult and pediatric HIV infections, poor health outcomes and low household incomes. The increasing availability of PMTCT and Anti Retroviral Therapy (ART) services has restored desire for children among PLWHA. However these interventions are not 100% effective in stopping HIV acquisition and transmission Family Health Initiative (FHI, 2008).

in addition, in many countries women are unable to make autonomous decisions about their sexual and reproductive health. Women living with HIV infection may feel unable to disclose their lilly status and negotiate condom use with new sexual partners for fear of abandonment, domestie violence, loss of economic support, and social isolation (Chen et al., 2001)

13 Justifications

Data has shown that there is low utilisation of family planning services among PLWHA which increases mother to child transmission. As highlighted by the United Nations, to prevent unintended pregnancies among 1119 positive women, provision of quality Family Planning services is important. Family Planning services together with preventing primary 1110 infection in women have been reported to significantly reduce the proportion of infants infected with 1110 by 35%-15%. Prevention of Mother to Child Transmission (PMTCT) starts with preventing the mother from having an unintended pregnancy. This emphasizes the public health significance of providing effective Family Planning services to PLWHA (WHO, 2006). Ministry of Fiealth has put in place favorable policies that promote utilisation of family planning services among PLWHA yet family planning utilisation is reported as a challenge. There is need to identify the probable cause for this challenge.

licalth agencies, program multagers and policy makers target to improve contraceptive services and delivery of IIIV/AIDS services will require more information on how to bridge the gap between the increasing need for effective family planning services and the current low utilisation of family planning services

This study is timely for government and non-governmental organisations involved in giving care to PLWHA because it adds to existing knowledge about utilisation of family planning among sexually active PLWHA, at such a time when there is declining stigma of the lift' epidemic and improving quality of life due to improving HIV/AIDS care and treatment services, PMTCT and ARV therapy that in themselves influence reproductive decisions among PLWHA. In addition, it will generate information that will help in formulation of evidence based decisions by program implementers to strengthen the uptake of family planning services.

I.I Research Questions

- 1. What is the knowledge of PLWHA on family planning?
- 2. What is the perception of PI WILA on utilisation of contraceptive services?
- 3. What proportion of PLWHA use contraceptives?
- 4 What are the factors promoting utilisation of contraceptive services among PLWHA?
- 5 What are the factors hindering utilisation of contraceptive services among PLWHA?

1.5 Broad objective

The broad objective of this study is to investigate the utilisation of family planning services among People Living With HIV Aids (PLWHA) in Presidents Emergency Plan For Aids Relief (PEPFAR) clinic, Adeoyo Maternity Teaching Hospital, Ibadan.

1.6 Specific objectives

The specific objectives were to:

- 1 Assess the knowledge of PLWHA on family planning methods
- 2 As ess the perception of PLWIIA on utilisation of contraceptive services.
- 3. Document the proportion of PLWIIA utilising e service,
- 4. Identify the factors promoting the utilisation of contraceptive services among I'L WIIA.
- 5. Identify the factors hindering the utilisation of contraceptive among PLWHA

1.7 Hypotheses

- 1. There is no significant relationship between socio demographic characteristics of respondents and knowledge of contraceptive services
- 2. There is no significant relationship between socio demographic characteristics and perceptions of contraceptive services.
- 3. There is no significant relationship between socio demographic characteristics of respondents and utilisation of contraceptive services

CHAPTER TWO

LITERATURE REVIEW

2.1 Brief Overview of HTV/AIDS and PLWHA

The incidence of HIV/AIDS is a problem to sustainable global order, and indeed sub Saharan Africa's development. It is needless to say millions of people across the world are threatened every minute by a wide range of social problems — poverty, illiteracy, gender bigotry, conflict, drug abuse, addiction and trafficking, human trafficking, sexually transmitted infections (STIs), including Human Immunodelictency Virus (IIIV) and its advanced stage. Acquired Immune Deficiency Syndrome (AIDS). The rate at which these social pathologies are spreading in sub-Saharan Africa is disturbing (Abdul Azcez and Ismail 2010). The WHO (2013) HIV epidemic update indicated that an estimated 35 million people are living with HIV/AIDS worldwide, of which 24.7 million [23.5 million — 26.1 million] are in sub-Saharan Africa. Women account for 58% of the total number of people living with HIV in sub-Saharan Africa (UNAIDS, 2013).

Inui et al. (2009) opined that if adequate measures are not taken, the catastrophic nature of IIIV/AIDS will grind down the economic activities of some countries, if not the whole sub-Saharan African social order. This is because the global number of People Living with IIIV/AIDS (PLWHA) is increasing rapidly, from the earlier 8 million in 1990 to 35 million in 2013 and sub-Saharan Africa catries a large share of the burden of the disease. The provision of quality IIIV care in Africa, including effective contraceptive services, remains a challenge and therefore this region presents peculiar needs for effective delivery of family planning services to PLWHA (WHO, 2007).

The desire for HIV-infected patients to conceive has been a topic of recent research (Sauer and Chang 2002, Chen et al., 2001). Procreation is a basic human instanct. Expectedly, 111V-affected couples also desire to have children (Chen et al., 2001; Bunnell et al., 2005) For instance, a Ugandan (Tororo) study among a cohort of 111V-positive women receiving ART over a two year period showed that although 93-97% of all women reported not wanting any more children at any time, only 1-1% of women used permanent or senu-permanent family

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planning methods and fewer than 8% used dual contraception by their second year on ART (Homsy et al., 2009).

2.2 Situation of People Living With IIIV/AIDS in Nigeria

Based on spectrum estimates for 2013, the number of new infections in the country is 220,394. The total number of new infections in females continued to surpass that of the males (NACA, 2014).

Findings from the results of Garko's study (2007) conducted among PLWHA in Kadurm revealed some common situations being faced by PLWHA with reference to their sexual and family planning needs. These include the fact that the majority of female PLWHA are not well informed about the issue of safe sex and planned pregnancy and their main problem appeared to be their mability to decide when to have sexual this appears to be the exclusive preserve of the men (husband).

The majority of PLWIIA are not aware of orthodox family planning methods; few of them know about the male condom, fewer still know about the female condom. Some male PLWIIA do not like condoms because they claim it 'removes the pleasure of sex' Some do not believe in condoms at all. The female condom which is known by few people is not popular among them due to its high cost and unavailability

Very sew PLWHA are samiling with other samily planning methods such as the pull, the Lippe loop and the injectable contraceptive. Some claim that the natural methods of birth control, such as the rhythin method, coitus interruptus, and the sase period are better. This belief appears to have deep sented cultural and religious attachment.

2.3 Contraceptive Options for People I iving with IIIVIAIDS

At the Alma-Ata conference (1978), samily planning services were highlighted as one of the basic and important strategies for reducing high risk pregnancies that occur either too early, too late, or too stequently mul also as a way to improve child health.

Since the 1960s, fantily planning programmes have helped millions of women worldwide to avoid unintended pregnancies often associated with high risk abortions. Modern methods of family planning include: the pill, IUDs, injectables, implants, male and fearale condonis but

exclude lactational amenorrhoea, rhythm, and withdrawal. In general, the same contraceptive options are available to couples irrespective of their HIV status. According to WHO's Medical Eligibility Criteria for Contraceptive Use, most contraceptive methods are considered to be safe and effective for HIV-positive women, both with asymptomatic HIV and AIDS (WHO, 2004). Although women living with HIV make up 59% of all adults living with HIV in sub-Saharan Africa, there is still limited evidence of extent or type of contraceptive used by them. For women who are unable to negotiate safer sex, there are contraceptive methods they can initiate such as male and female condoms (UNAIDS, 2006).

2.3.1 Hormonal contraception

World Health Organisation publications (WHO, 2004; 2006) indicate that there are no restrictions on the utilisation of hormonal contraception by HIV-positive women, whether pills, injectables, implants. Womeo on antercroviral treatment can use them as well. However, the drug, rifampicine, which is used for tuberculosis treatment, may decrease the effectiveness of oral contraceptives (WHO, 2004; 2006), and the limited data available suggest that several antiretroviral drugs may either increase or decrease the bioavailability of steroid hormones in hormonal contraceptives. Therefore, the consistent use of condoms is recommended, not only for preventing HIV transmission, but also for preventing unintended pregnancies. Low-dose oestrogen (V35 Ag) is not recommended for women receiving rifampicine (WHO, 2006). Data on hormonal contraceptives and progression of HIV disease, while much needed, are still limited. Regarding transmission of other STIs, WHO recommends no restrictions on the use of combined oral contraceptives, progestogen-only pills, combined injectables or DMPA injections among women at high tisk of STIs. However, the guidelines emphasize that none of these methods provide protection against STIs.

2.3.2 Intrauterine device (IUD)

IIIDs can be used in ease of IIIV infection, except for women with AIDS and those not on antirettoviral therapy (WIIO, 2004, 2006). Limited evidence shows that IUD use by HIV-infected women has not been associated with increased tisk of infection-related complications not with IIIV cervical shedding (WHO, 2006). The fact that copper-bearing IUDs may

account in case of HIV-positive women.

2.3.3 Female and male sterilisation

Female sterilisation is the most commonly used family planning method in developed countries, whereas in developing countries reversible methods are more popular (United Nations Department of Economics and Social Affairs, Population Division, 2003). Some studies have shown that HIV-positive status influences fertility intentions (Paiva et al., 2003) especially the desire to stop childbearing among those who have completed their families, who therefore may favour the choice of a permanent method (Hopkins, 2005). Male sterilization (vascetomy) is also an option but its use among HIV-positive men has not been documented.

2.3.4 Emergency contraception

Emergency contraception can help to prevent unintended pregnancies Immediate access is emergency contraception may be vital (Karania, 2003). Concerns have been raised that some women could use emergency contraception in place of regular contraception. However, while necess to information improves knowledge of this method, it does not increase its use (Grabæn, et al., 2002).

In general, women living with Lilv and discordant couples still seem to have far too little knowledge of emergency contraception. For example, in South Africa, where contraceptive use is quite high compared to many other African countries, qualitative studies conducted among 111V and PATTCT clinic attendees showed that women and men living with 111V had little knowledge of emergency contraception or how to access it (Cooper et al., 2006). As with other non-barrier contraception, emergency contraception does not protect against STI or 111V transmission and information on risk reduction needs to be routinely given.

23,5 Barrier methods; Male and female

Male Condom

According to Park (2007), the condom is the most widely known and used barries device by males ground the world in India, it is better known by its trade name NIRODIE, a Sanskrift word, mesning "prevention" The condens is receiving new attention soding as an effective simple "specing" method of contraction, without side effects it prevents the senior fram being deposited in the vagina, thus preventing pregnancy and transmission of sexually transmitted infections.

Female Condom

Park (2007) stated that the female condow is a pouch made of polyurethane, which lines the vagina. An internal ring in the close and of the pauch, covers the cervix and an external ring remains outside the vagina. It is pre-lubricated with silicon and spermicide need not be used. It is an effective barrier to sexually transmitted infection.

Current data suggest that both male and female contions are highly effective in protecting against pregnancy (failure rates for typical use are 15% versus 21% and for perfect use 2% versus 5%, respectively) (Hatcher et al., 2004) A recent study comparing the female and the male condens for their effectiveness in preventing programe, showed that the two methods are substantially the same (liatzell floke and Departhes, 2005) Male condoms, used consistently and correctly, are the most effective means to prevent sexual transmission of HIV (Veller and Davis 2002)

Data from people accessing services for antitetroviral treatment and PMTCT in Ghans. Hillippia, Kenya, Rwanda and South Africa show that male condonis are the contraceptive method must frequently used by people living with IIIV (Degu et al., 2006; Rutenberg and Back 2004) This differs somewhat from data on contracepuve method mix in general populations. Interventions to promote condom use in sub-Saharan Africa and Asia have generally led to increased condom use, mustly in conuncreial and casual sex, while levels of condom use are lower as the degree of intimacy and subility of the relationship are greater. However, condonis have rarely been promoted to stable couples either. Using condonis demands communication and negotiation (Exastt, 2013)

Recent studies provide a more encouraging picture in terms of women's ability to influence men's sense of sexual risk and condom use. One study has shown that married women play an important role in condom use, which depended on the woman's subjective sense of IIV risk (but not the man's) (Pullum and Shah 2005).

To date, seve studies have looked at men's actual responses to semale condom use (Williamson et al., 2006). Qualitative data have shown that women living with HIV in particular feel more in control when using the semale condom compared to the male condom or unprotected sex. Women view the semale condom as a means of ephancing their safer sex bargaining power within the relationship (Hossman et al., 2004). Efforts to target men and to empower women need to go hand in hand if persistent obstacles to condom use are to be overcome.

2.4 Fertility Desire and Family Planning among PLWHA

Globally, scribity is one of the principal components of population dynamics which significantly makes the developing countries host a large proportion of younger population (Central Statistical Authority, 2005).

The vast majority of people around the world adopted voluntary family planning programmes during 1974-94, a period termed the "reproductive revolution". The period saw the appearance of a new fertility determinant organized netions by whole societies to bring birth rates down to match the falling death rates, and to improve the socio economic situation of the community. Those actions give women greater control over their own child bearing, and to relieve sarnllies from the unexpected buidens of raising more surviving children than in the past. The major cause of this launching of reproductive revolution was the primary health care system. During this period, a reproductive change occurred in every region of the world except sub-Saharan Africa (World Bank, 2010).

The average total sertility rate in Assica is 4.9 children per woman while that of sub-Sub-Sub-sub Africa is 5.4 In sub-Satiatan Africa, the highest total fertility rate is in Uganda with 6.7 children per woman and the smallest is in South Africa with 2.9 children per woman (Central Statistical Authority, 2005)

In Ethiopia, as in many cultures across the world, child bearing is considered the customary right and duty of women for which most of the time sustainability of marriage and economic possession are guaranteed. Fertility and having children are regarded as natural and foilure in either is universally considered socio-culturally abnormal. The root of infertility is perceived to lie within the woman resulting in loss of respect, the husband is rarely implicated in the blame (Misganaw, 2001, Federal Democratic Republic of Ethiopia Ministry of Health 2006). Total sertility rate in Ethiopia declined between 1990 and 2005 from 6.4 to 5.4 children per woman while family planning utilisation is low with a met need for family planning of 15% and unmet need of 34% for currently married women (Central Statistical Authority, 2005).

2.5 Fertility and IIIV Infection among PLWILA

One effect of IIIV/AIDS on women and society at large is a change in fertility levels, which is instructed in part through altered behaviour that has been largely instruenced by AIDS education Increased condom use, delayed onset of sexual relations, older age at first union, and sewer premarital sexual relations; and lower rates of remarriage after an AIDS-related death of a partner have drive down fertility rates (Shari Margoles, 2004).

The other effect of HIV/AIDS on fertility rates in HIV-positive women and men is through biological mechanisms compared to non-infected people. HIV-infected women experience reduced pregnancy rates and higher rates of both planned abortion and misearringe. HIV/AIDS may induce sterility, increase foetal mortality, decrease production of spermatoros, and sometimes decrease frequency of sexual intercourse, all contributing to declining fertility (Shari Margoles, 2004).

2.6 Fertility Intention among 1117-positive Men and Women

HIV-positive men and women may have fertility desires and may intend to have children. The extent of these desires and intentions and how they may vary based on individuals' social and demographic characteristics and health factors is not well understood the fact that many HIV-insected adults desire and expect to have children has important implications for the prevention of vertical and heterosexyall transmission of Illy (Chen et al., 2001)

It was found that 28-29% of IIIV-infected men and women receiving medical care desire children in the future. Among those desiring children, 69% of women and 59% of men actually expect to have one or more children in the future. In a study of IIIV positive heterosexuals in Switzerland, 20% of IIIV-positive women and 22% of IIIV-positive men reported a current desire for children during the study period. A larger proportion (47.5%) of IIIV-positive women and 38% of IIIV-positive men stated they would like to have children in their future life (Laura et al., 2003). In Ethiopia, a study revealed that 40.02% of IIIV-positive individuals, of which 44.7% were women and 35.2% were men within the reproductive age, desire children while 53.5% are using and 39.7% want to use family planning in the future (Sauer and Chang 2002).

2.7 Family Planning Utilisation among PLWIIA

Contraceptive use and compliance are related to the range of methods available, patient choice, prevalent health and religious beliefs, perceptions of methods effectiveness, and side effects such as women who may have less tolerance for heavy and prolonged vaginal bleeding than amenorthea. Correct use of most user dependent methods like both male and female condorns and pills requires a basic knowledge of reproduction and literacy skills to follow written institutions (Joint United Nations Programme on IllV:AIDS, 2008).

Family planning utilisation is important to women and men with HIV/AIDS and other sexually transmitted infections who do not want to risk infecting their partners and cluidren (UNAIDS, 2008). In studies of women with HIV infection, approximately 70% were sexually active, effective contraception use was variable, and unplanned pregnancy frequently reported. In a cohort of Irish HIV-positive women only 57% of the sexually active women used a reliable method of contraception. A French study of sexually-active women with HIV that 20% were not using any contraception. In an African study, 39% of women with HIV that 20% were not using any contraception. In an African study, 39% of women with HIV infection used contraceptives (Joint United Nations Programme on HIV/AIDS, 2008)

In many countries women are unable to make autonomous decisions about their sexual and reproductive health. Women living with IIIV infection may feel unable to disclose their IIIV status and negotiate condom use with new sexual partners for fear of abandoment, domesus, status and negotiate condom use with new sexual partners for fear of abandoment, domesus, violence, loss of economic support, and social (solation (Chen et al., 2001). In a qualitative violence, loss of economic support, and social (solation (Chen et al., 2001).

women living with HIV/AIDS (WLHA) aged 18-35 years. The study highlighted the women's need to sulfil their fertility desires and recommended programmes that both enable WLHA to exercise informed choice and sensitize healthcare providers about these needs.

In Rwanda, although a majority of HIV-positive women reported discussing family planning with a health worker during their lost pregnancy (79%), modern family planning use remaioed low (43%). Condoms were the most commonly used method (31%). Further efforts are needed to improve uptako of modern methods, including dual protection in PMTCT settings (Shari Margoles, 2004, Fourth meeting of the Follow-up committee 2002).

2,8 Factors Influencing Utilisation of Family Planning Services

Some of the respondents in this study reported that one of the factors that hinder their use of IPP is the fear of anti-retroviral drug renction with FP drugs. This finding is consistent with that of Berhane et al (2013) which revealed that 26.3% of IIIV-positive women did not use FP beenuse of fear of drug reaction

One-third of the PLWHA in this study reported that the usefulness of FP for child spacing and to stop child bearing altogether promotes its utilisation. Not desiring to have children may strongly influence the use of contraception by increasing its uptake.

2.8.1 Age and fantily plnoning utilisation among l'LWILA

Rob et al. (2007), in their study on contextual influences on modern contraceptive use among women irrespective of their HIV status, in six countries in sub-Saharan Africa that included Kenya, Malawi, Tanzania, Ivory Coast, Burkina Faso, and Ghana, showed that younger women, especially in the age group 20-29 years, were more likely to use modern contraceptives. For example, findings in Tanzania showed that the likelihood of contraceptive use in the age group 20-29 years was higher [OR=1.88, 95% CI 1.35-2.62] compared to age group 15-19 years [OR=1.47; 95% CI 0.85-2.55] and age group 40-49 years [OR=0.61-95% CI 0.41-0.90]

Utomo et al-(1983), in their study a cohort of women, inespective of their lilly status. following analysis found that older age was one of the four major independent factors associated with the use and non-use of contraception.

Parity and family planning use 2.8.2

A study of demographic and socio-cultural factors influencing contraceptive use among currently married women in Uganda, inespective of their HTV status, showed that higher contraceptive use was associated with a lugher number of surviving children. Agyei and Migadde (1995 found that 26.2% of women with three or more surviving children used contraceptives compared with 19.0% among women with no surviving children

Todd et al. (2008), in their study of factors associated with contraceptive use among hospitalized obstetric patients, irrespective of their HIV status, reported that contraceptive use was independently associated with having a greater number of living children (AOR=1.30, 95% C1: 1.20 - 1.41).

2.8.3 IIIV serohositivity, care and family planning use

Feldman and Maposhere (2003), in a study to explore the impact of HIV/AIDS on sexual and reproductive lives of women living with HIV in Zimbabwe, found that contraceptive and condom use increased markedly after HIV diagnosis, especially among those attending support groups

In a Cameroon study, results showed that sentility rates were lower in HIV-positive women compared to their IIIV-negative counterparts. The overall fertility rate for HIV-positive women was 118.7 births per 1000 woman-years [95% Cl 98.4 to 142.0] compared to 171.3 birtlis per 1000 woman-years [95% C1 164.5 to 1782] for HIV-negative women. The ratio of the sertificy rate in IllV-positive women to the sertificy rate of IllV-negative women was 0.69 [95% CI 0.62 to 0.75] (Eugene and Wiysonge 2008).

Gray et al (1998), in a study to assess the effects of IIIV-1 on pregnancy showed that pregnancy prevalence is greatly reduced in IIIV. I-infected women, owing to lower rates of conception. The odds of pregnancy were low both in IllV-1-infected women without symptoms (0.49 [0.39,0.62]) and in worthen with symptoms of HIV-1-associated disease (0.23 [0.11-0 48]). The incidence rate of recognized pregnancy during the prospective following study was lower in lilV-1-positive than in IIIV-1-negative women (23.5 vs 30.1 per 100 woman. years, adjusted risk ratio 0.73 (0 57-0 93))

2.8.1 Education level and family planning use

A study on fertility and FP trends among women in urban Karachi-Pakistan, irrespective of their HIV status, showed a strong trend toward declining sertility and increased utilisation of contraceptives among the relatively well-educated, middle-class population (Finger et al., 1999).

In another study on factors affecting use and non-use of contraception among women, irrespective of their IIIV status, current users of contraceptives or their spouses were more educated than their counterparts who were not current users. (Utomo et al., 1983).

Rob et al. (2007), in their study of women, irrespective of their III V storus, in six sub Saharaa African countries including Kenya, Malawi, Tanzania, Ivory Coast, Burkina Faso, and Ghana, showed that secondary or higher educational attainment was more likely to be associated with the use of modern contraceptives in all the six countries. For example in Burking Faso, higher educational attainment was more likely to be associated with use of modern contraceptives [OR=2.52: 95% Cl 1.71-3.72], compared to lower educational attainment [OR=1.52: 95% Cl 1.05-2.21].

2.8.5 Knowledge about family planning methods

A study about knowledge as an important predictor of contraceptive use among young people irrespective of their IIIV status showed that condom knowledge at logistic regression was associated with 33% increased odds of ever using them (OR = 1.33) among both male and scale participants (Ryan et al., 2007).

Women enrolled in preveotive HIV vaccine triols reported insufficient knowledge of certain contraceptive methods to be among the reasons for not using contraception and that misconceptions related to the methods and incorrect use may have led to inconsistent use resulting in undesired pregnancies (Kibuuka et al., 2009)

Another survey conducted in 1.1 countries among 7000 women aged 14.40 years irrespective of their HIV status, showed that knowledge gap about FP methods results women's contraceptive choices and hence use Women fail to take advantage of new contraceptive methods due to lack of knowledge and rather stay with familiar options (Rossella, 2006)

2.8.6 Spouse and effect on family planning use

A study on correlates of consistent condom use among HTV-positive African American women living in the United States showed that women with HIV were more likely to use condoms if they had high parlner communication self-efficacy [OR = 7.77, 95% Cl 3.3-18.6, p = 0.001] and reported low partner-related barriers to condom use [OR 4.68, 95% CI 1.8-12.2, p = 0.001] (Raiford et al., 2007).

in another study on contextual influences on modern contraceptive use among women in six sub-Saharan African countries, irrespective of their 111V status, Rob et al. (2007) showed that partner approval was more likely to be associated with use of modern contraceptives. For example, partner approval was 4 times more likely to be associated with modern contraceptive use in Malawi [OR =3.59. 95% Cl 2.93.4.39] and in Kenya [OR -3.49; 95% Cl 2.73.4.46].

Partner opposition was found to cause a statistically significant increase in unmet need accounting for as much as 20 percent of the unmet need reported by women and a shift in contraceptive us e favouring traditional methods over modern methods (Wolff et al., 2000).

2.8.7 Influence of culture on family planning use

Individual factors that determine a person's use of services such as FP are mediated by the characteristics of the community in which the individual lives. It is important to look beyond individual factors when examining FP use or non-use (Isui and Stephenson 2002). Cultural norms and expectations are varied and include among others, fatalism attributed to HIV. disease, fear of infecting the unborn child, gender roles designated by society such as the role of women in child bearing and the demand for bigger somilies (Srikanthan and Reid 2008). A qualitative study to identify and describe perceptions of HIV-positive Swazi women on childhearing showed that cultural expectations override individual factors such as knowledge about one's HIV sero-positivity. For example pressure from in-laws forces HIV-positive women to have children despite their status as well as the desire to postray "feminimity" and fulfill womanhood (Sukati and Shabangu 2006)

Often the perceptions of individuals are shaped by their culture on matters of fertility, including contraceptive use. In a cross-sectional surve) to assess use and identify condom use barriers, results showed that 36.8% of males and 47.5% of females used condoms during the last occasional intercourse. Failure to use condom was related to its perceived lack of efficiency [OR = 9.76 (3.71-30.0)] and perceived quality [OR = 3.61 (1.31-9.91)] (Sennen et al., 2005). A study to explore religious beliefs among men and their influence on use of condoms showed that most of the men (63%) avoided using condoms and were opposed to women's contraceptive use (Degni et al., 2008).

2.8.8 Health service delivery and family planning use

lealth services, in particular private family planning service delivery, play a big role in sexual and reproductive health behaviours, outcomes of risk perception, and in this regard, use of family planning by PLWHA. In one study, results showed that the proximity of a private health facility in urban areas, which likely reflects increased availability of family planning methods, was positively associated with current use (odds ratio, 2.1) as was the presence of a higher number of trained family planning service providers (odds ratio 1.7) (Katende et al., 2003).

lo a study on contraceptive use and incidence of pregnancy in Ivory Coast among 546 HIVpositive women followed up for 2 years after delivery and given fixinity planning counselling
and free contraceptives, results showed high proportions of women using modern
contraception, varying from 52 to 65%, and low pregnancy incidence (calculated as the
number of pregnancies for 100 women-years at risk) of 5.70 (95% CI: 4.17-7 23) Findings in
this study indicated that fatoily planning counselling and regular follow-up after delivery was
accompanied by a high rate of contraceptive use and low pregnancy incidence among
PI-WHA (Brou et al., 2009).

In Rokai, Uganda, a community randomized trial of calanced FP efforts in an fill surveillance programme showed statistically significant higher use of horizonal contraceptives (23.2% vs. 19.9%) [p=0.009] and lower pregnancy rates (12.4% vs. 15.7%) [p=0.002] in the intervention arm as compared to the control arm investigators found that

using trained volunteers and social marketing of cootraceptives can improve contraceptive uptake among PLWHA (Tom et al., 2006).

In a study carried out among people living with HIV/AIDS attending a clinic at State Specialist Hospital, Akure, South West Nigeria, factors found to determine the current use of the barrier method of family planning included having living children, good knowledge of family planning methods, high level of education, urban area of residence and lack of death of any child. Poor knowledge and very low current use of contraception among people living with HIV/AIDS were also reported in the study. Although, contraceptive use and compliance is related to the range of methods available, patient choice, prevalent health and religious beliefs, perceptions of method effectiveness, and side effects, correct use of contraceptive methods requires a basic knowledge of contraception and literacy skills to follow written instructions (Kayode, Patrick, Victor, Stephen and Debora, 2014).

2.9 Legal and policy implications

Human rights are the foundation of sexual and reproductive rights. Non-discrimination and equality are of particular importance when dealing with women and men living with HIV. Access to family planning services and the range of contraceptive options must be ensured for women and men living with HIV. Particularly in countries with low contraceptive prevalence rates, this is currently not the case. A study on reproductive rights for women affected by HIV carned out in Argentina. Mexico, Poland, Kenya, Lesotho, South Africa and Swaziland showed that contraceptive options tend to be limited. Health care providers' preferences determined how much and what kind of information women received about contraceptives (Ipas, 2005). The quality of family planning services is a crucial element for women and men living with HIV. Counseling has to be well conducted to ensure confidentiality and provide age-appropriate and accurate information (International Planned Parenthood Federation, 2005).

While sterilisation may be a good option for HIV-positive women and men, depending on ege as well as personal and social circumstances, the danger of being pressured or cocreed into being sterilised must not be underestimated, hence informed choice must be assured in some being sterilised must not be underestimated, hence informed choice must be assured in some

countries, post-partum sterilisation is prohibited by law, except in cases where either future childbearing or another operation would constitute a high risk. In that context, stark differences in medical practice may greatly affect the extent of post-partum sterilization, as shown in a study in two cities in Brazil, despite the same legal environment (Hopkins et al., 2005). Adequate law and policy to guide decisions and implementation of programmes and services with respect to sterilization are therefore important in order to avoid practices that violate rights. There are still barriers to access to cancergency contraception and over-the-counter sale without prescription exists only in about 40 countries, including Jamaica, Argentina, Israel, Australia, New Zealand, China, South Africa and other parts of Africa and Europe, and three of the provinces of Canada (Clements and Daley, 2006).

In some cases, there is even active opposition to making it more widely available (for instance, in Argentina and Poland), while in other places, burcaucmtic and financial factors impede increased availability (Ipas, 2005). Numerous studies have demonstrated that providers lack knowledge and have inisconceptions about emergency contraception. Even providers who know about the method often do not offer it to women who would benefit from it (Family Ilealth International, 2001).

The current supply of both male and semale condoms is highly inadequate (Foss et al., 2003) in particular, the supply of semale condoms, though they have been no the market for more than ten years and despite the clear need for women-initiated methods, is significantly below levels that would have an impact on the HIV epidemic (UNIPA/PATH, 2006). Large-scale production, distribution and promotion programmes, including cost reduction, are greatly needed.

With respect to dual protection, many international organisations in the field of sexual and reproductive health have issued policy statements supporting its use (World Health Organisation, 2000). From a public health perspective, the practice of dual protection is essential to the attainment of sexual and reproductive health. However, policies that have focused on condom use have largely ignored contraceptive issues and vice with saxual partners believed to policies have been targeting men by promoting condom use with saxual partners believed to

be at higher IIIV/STI risk, and not with regular partnets. How to make dual protection socially and culturally acceptable in long-term relationships has been treated as an untouchable agenda to date (Berer, 1997). Since they are not considered the most effective means of fertility control, the family planning field has been reluctant to recommend condoms alone for dual protection. A shift in mindset among family planning managers and service providers is necessary in order to give more room to the promotion and use of condoms. Access to emergency contraception and abortion, when legal, are also crucial when policies fail to promote and provide contraception and as a back-up in case of contraceptive failure. If dual protection is promoted, all means of increasing safer sex must be taken into account and included in public health campaigns.

Conceptual Framework

This framework will be guided by the Health Belief Model.

2.10.1 Health belief model

The health belief model is a widely applied behavioural model in several disciplines including public health. The model can be use to explain individual's health-seeking behaviour. In this model action is guided by the following six factors:

Believe they are susceptible to outcome risks such as unwanted pregnancies, mother to child transmission and opportunistic infections and reinfections (Percieved Susceptibility)

- Believe that non-utilization of family planning has serious consequencies (Percieved Severity).
- 2. Believe that taking action- utilisation of family planning by PLWHA would reduce their susceptibility to unintended pregnancies, opportunistic infections and reinfections (Percieved benefits).
- 3. Believe cost of taking action (Percieved barriers) such as stigmatization, distance and transport difficulties, reluctance to reveal HIV status are outweighed by the benefits of utilisation of family planning services.
- 4. Believe that PI WI IA are exposed to factors that prompt action such as experience of copatients, family planning counseling from health care providers and current symptoms (Cue to
 action).
- 5. Believe that PI WIIA are confident in their ability to successfully utilize family planning services.

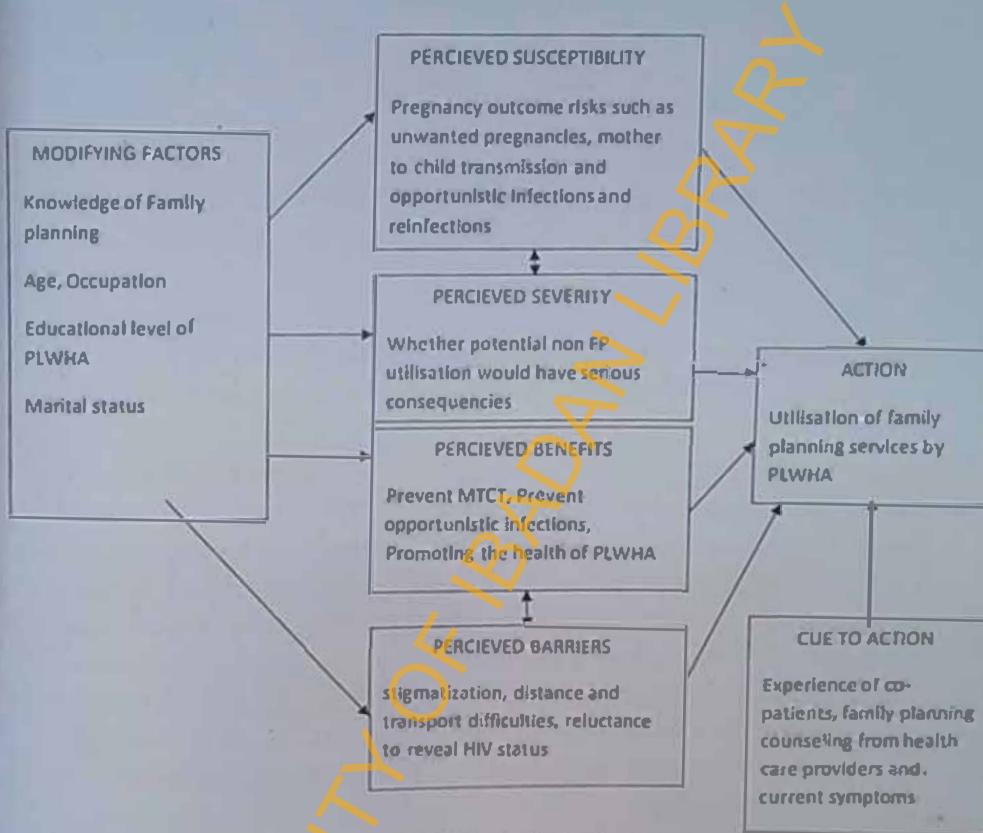


Figure 2.2: Application of Health Belief Model on Utilisation of contraceltive use uniong PLWIIA

Source: Modified from Sheeran and Abraham, 1995

CHAPTER THREE

METHODOLOGY

3.1 Study Design

The study was a descriptive cross sectional survey among PLWHA attending PEPFAR clinic Adeoyo Maternity Teaching Plospill.

3.2 Scope of Study

The scope of this study was confined to the utilisation of family planning services among PLWHA clients attending the PEPFAR clinic of Adeoyo Maternity llospital

3.3 Description of Study Area

This study was conducted in Adeoyo Maternity Teaching Hospital, Yemetu, in Ibadan North Local Government Area of Oyo State. The hospital was established in 1928 with total staff strength of about 600 as at the time and presently total staff strength is 512. It started as a General Hospital, served as a health centre for treatment of senior civil servant and the community It also served as a hospital for training Medical students at the inception of College of Medicine, University of Ibadan in 1948. In 1987, a General Surgery Department, ENT. Ophthalmology and Depurtment of Medicine were relocated to the Ring Road State Hospital leaving behind the Obstettie and Gynnecology, Paediatries and Accident and Emergency Departments. The administration of Otunba Christopher Adebayo Alao Akala carried out major renovation of the Hospital in 2008 after eightly years of existence in other to improve the health care delivery.

President Emergency Prophylactic Fund for Aids Relieve (PEPFAR) clinic is one of the clinics in Adeoyo Maternity Teaching Hospital. It started originally as a satellite of University College Hospital from May 2008 in Harvard PEPFAR program, Adeoyo became a full Redged site of Harvard PEPFAR/APIN Phis in March 2007 Patient corolment commenced in

January 2008. Full commencement of ART and PMTCT was in January 2008. There are 10 full time members of staff and about 30 part time staffs.

It is an outpatient clinic that operates everyday while most of their patients are pregnant women and children. According to the clinic records (May 2013) total number of female attending the clinic is 648 women, 259 males and 274 nursing mothers. There are 272 children under two years of age attending the clinic. Service offered in the clinic includes Voluntary Counseling and Testing (VCT), prevention of mother to child transmission (PMTCT) of HIV, Aduh ART, Paediatric ART, basic care and support including orphans and vulnerable children (OVC) once a week with about 100 people in attendance.

3.4 Study Population

All newly registered male and female PLWHA attending PEPFAR clinic, Addoyo Maternity Teaching Hospital, during the period of study were randomly selected, May, 2013

3.5 Sample Size Determination

The sample size will be calculated using the following formula

$$n = \frac{Z^2 Pq}{d^2}$$
 (Muhofah 2010)

n = minimum sample size

z = 1.96

P = 39% i.e. the prevalence of utilisation of contraceptives among PLWHA in Africa (Mitchell and Stephens 2004).

$$q = 1.0 - P$$

d = Degree of occuracy desired (0.05)

 $n = 1.96^{2} \times 0.39 \times 0.61$ 0.05^{2} $n = 3.8416 \times 0.39 \times 0.61$ 0.0025 n = 365



3.6 Sampling technique

The number of respondents for the study was 365 at the PEPFAR clinic of Adeoyo maternity teaching hospital. Random sampling of respondents was employed by using the register for new clients—choosing one out of five patients to whom questionnaires were administered as at the time data was collected (May 2013), were recruited for the study.

3.7 Instrument of Data collection

The questionnaire was structured into six sections which were:

Section 1 Socio-demographic characteristics of respondents

Section 2: Family planning knowledge among PLWHA

Section 3: Perception of PLWHA on utilisation of available family planning services.

Section 4. Proportion of PLWHA utilising family pluming contraceptives

Section 5: The factors promoting the utilisation of contraception among PL WHA.

Section 6: The factors hindering the utilisation of contraceptives among PLWHA.

Three research assistants were recruited and trained for the administration of the questionnaire. Data was collected using interviewer administered semi structured questionnaire that was also translated to Yoruba for respondents that do not understand English. The Yoruba form of the questionnaire was then translated back to English to ensure consistency of meaning

3.8 Validity

In order to ensure validity of the study instruments, relevant literatures were reviewed with a view to learn and know about variables which needs to be measured before developing the questionnaire for the mun study. The questionnaire also had undergone serutiny from my supervisor and experts in the field of health promotion and education, bio-statistics, clinical and community medicine and psychologists.

3.9 Reliability

To ensure reliability of the questionnaire, the instrument was pretested among 40 respondents at the PEPFAR clinic University College Hospital (UCII), Ibadan. The clinic has similar characteristics as that of Adeoyo Maternity Teaching Hospital, Ibadan and reliability of the instrument was 0.72 obtained using Cronbach Alpha.

Cronbach Alpha is a model of internal consistency, based on the average inter-item correlation

According to this approach, a result showing correlation co-efficient of 0.05 and above closer to 1 is said to be more reliable (Solademi 2011).

Training of research assistant. Three research assistants were recruited and trained for the administration of the questionnaire. This was aimed at appending the knowledge relating to the nature of the study and the content of the instrument

3.10 Method of Data collection

Quantitative instrument used was a semi structured interviewered administered questionnaire. The instrument was designed after reviewing related literatures on utilisation of contraceptives services among PL WHA at the PEPFAR clinic of Adeoyo Maternity Tesching Hospital, Ibadan. The design of the instrument was facilitated by the use of HEALTH BELIEF model 9modified from Sheerun and Abraham 1995). Data was collected using three revearch assistants who distributed the questionnaire to the respondents who attended the clinic during the period of collecting data in May 2013 (period of four weeks) from Monday to Friday. The researcher inspects and collates data everyday to ensure the work is done thoroughly.

3.11 Data Management and Analysis

Serial numbers were written on the questionnaire before administering them to identify easily and to facilitate recall, aiter collection from the field they were sorted, cleaned, collated and coded. A coding guide was developed before data were entered into the computer. The sections of the questionnaire were analysed in the following ways:

Section 1, which was the socio-demographic characteristics of respondents', was analyzed using descriptive statistics. Sections 2, 3 and 4 were analyzed using descriptive statistics, Chi-square and logistic regression inferential statistic. Knowledge questions with a maximum of 18-point scales were categorised as poor, fair and good for scores ≤ 6 , >6-12 and >12 respectively, while perception questions with a maximum of 10-point scale were rated as negative and positive for scores ≤ 5 and >5 respectively. Section 5 was analyzed using descriptive statistics. Data were analyzed using SPSS version 16.0 with a p-value set at 0.05.

3.11 Ethical Considerations

Ethical approval for this was obtained from Ethical Review Committee (ERC) Oyo State Ministry of Health (see appendix III). In addition, informed consent was obtained from the participants after detailed information about the study was provided. They were also informed they could withdraw from the study at any given point when they felt like. Identifier such as name or address was not required of respondents and all information was kept confidential. Completed questionnaires were kept secured to prevent unauthorized access to these

3.12 Limitation

The limitation of the study on the accumey of the information given by respondents.

Efforts were made to ensure that questions were simple, clear and devoid of technical terms that the respondents will not be able to understand.

Basic ethical guidelines including confidentiality and volunteerism was stressed with the view of encouraging respondents to be as honest as possible.

CHAPTER FOUR

RESULTS

4.1 Socio-demographic characteristics of respondents

Less than half 47.9% of respondents were in the age range 28-37 years, with a mean age of 36.6 ± 8.9 years. Most (83.3%) of the respondents were females and 80.0% were married. Respondents who attained tertiary education had the highest in number (23.3%). Most of the respondents were Yoruba (9) 2%), followed by Hausa (5.2%). More than half (61.1%) of the respondents were in a monogamous family and 77.5% were self-employed (Table 4.1).

Table 4.1 Socio-demographic characteristics of respondents

Variables	No	(%)
Age group (years)		
18 – 27	46	12.6
28 – 37.	175	48.0
38 - 47	99	27.1
48 – 57	33	9.0
≥58	12	3.3
Mean = 36.6		
SD = 8.9		
Alucital status		
Single	28	7.7
Married	292	80.0
Divorced/Separated	25	6.8
Type of Family		
Monogemous	223	61.0
Polygamous	113	31.0
Single parenting	17	4.7
Divorcee/separated	12	3.3
Educational Qualification		
Non formal	30	8.2
Primary education	83	22.7
Secondary education	167	45.8
Testiary education 4	85	23.3
Religion		
Christianity	200	54.8
Islam	163	44.7
Traditional	2	0.5
Ethnicity	- 155	91.2
Yoruba	333	5.2
Hausa	19	36
Igbo	13	
Occupation	52	14.2
Civil scrani	283	77.5
Self employed	9	2.5
Full Housewife	21	5.8
Unemployment	21	



Figure 4.1: Age group distribution of respondents (in years)

4.2 Family planning awareness, usage and accessibility among respondents

As shown in Table 4.2, all the respondents had heard about family planning. The majority of respondents (75.9%) had used family planning with 33.4% and 32.1% reporting having ever used and currently using condoms respectively. Most of the respondents reported that family planning is accessible for them in the clinic with 43.3% reporting condom dispensation as the most common method available, followed by injectables (19.9%). A high proportion (33.4%) of the respondents heard about family planning from the health workers followed by radio (28.0%); see figure 4.2.

Table 4.2: Family planning awareness, usage and accessibility among respondent. s

(n=365)

Variables	No	(%)
Ever heard of family planning		
Yes	365	00.0
Ever used any family planning method		
Yes	277	75.9
No	88	24.1
Family planning method used (n=277)		
IUD	37	10.1
Oml contraceptivespills	47	12. 9
Condom upsin i	122	33. 4
In je ct abl es	48	13. 2
Nutural method	5	1.4
Implant	7 2	0.5
Family plauning method presently using		
TUCD	26	7.1
Oral contraceptives Pills	27	7.4
Barrier method: Condoms(Male and Female)	117	32.1
Injectables	31	8.5
Natural Methods	5	1.4
Implants	2	0.5
Types of methods available in the clinic? **		
Dispensing of condon (male and female)	30 1	43.3
Pills	117	16.8
Injectable	138	19.9
IUCD insertions	85	12.2
Implant	54	7.8

^{*} Multiple responses



** Multiple responses

Figure 4.3: Sources of information on Family planning

4.3 Knowledge of family planning among respondents

Table 4.3.1 shows the responses on knowledge of respondents on family planning methods. A high proportion (79.2%) of respondents knew that contraceptives are drugs or objects used to prevent or delay pregnancy, and that male and female condoms cannot be used at the same time (79.2%). Only a few (7.4%) respondents knew of vascetomy as a method of family planning (Table 4.3.2). Hence, 29.9% had good knowledge about family planning (Table 4.3.3).

Table 4.3.1 Knowledge of family planning among respondents

Variables	Respondents with the correct maswers (n=365)	l'ercentage (%)	
•Methods of Family Planning			
IUD	216	59.2	
Oral Piils	217	59.5	
Condoms (Male and Female)	280	76.7	
Injectables	234	64.1	
Vaseciomy/TB1.	76	20.8	

^{*}Multiple responses

^{**}Correct responses

Table 4.3.2 Knowledge of family planning among respondents

Variables	Respondents with the correct answers (n=365)	(%)
	Q	
	Yes	No
Contraceptives are drugs or objects used to prevent or cellny pregnancy	289	79.2
	127	34.8
**Vascetomy is a family planning method that is not reversible	127	J-1.0
Vascetomy is a family planning method for men	124	34.0
** Male and female condoms cannot be used at the	289	79.2
same time		

^{*}Multiple responses

^{**}Correct responses

Table 4.3.3 Knowledge score on family planning among respondents n=365

Knowledge score (9)	Frequency'	(%)
l'oor (≤3)	116	31.8
Fair (4-5)	140	38.3
Good (≥6)	109	29.9

Table 4.3.3 Knowledge score on family planning among respondents n=365

Frequency	(%)
116	31.8
140	38.3
109	29.9
	116

4.4 Perception on utilisation of contraceptive services among respondents

In Table 4.4.1, most respondents (61.4%) disagreed on non usage of contraceptive services because of the side effects. Most respondents (88.5%) agreed to using family planning because of its safety. More than half (58.4%) disagreed to usage of family planning because they do not want people to know their IIIV status. About 96.2% and 97.0% disagreed on usage of family planning methods because of their religion and cultural beliefs respectively. Hence, 94.0% had the right perception to utilisation of family planning methods (Table 4.4.2).

Table 4.4.1: Perception on utilisation of family planning services among respondents

Perceptions	Respondents with positive perception (n=365)	(%)
I can't use family planning because I am afraid of		61.4
i use family planning because I am sure of it safety l can't go for family planning because I don't want	323 213	88.5 58.4
people to know my HIV status I can't go for family planning because my religion		96.2
does not permit it l can't use family planning melliods because my		97.0
culture does not permit it		

Table 4.4.2: Perception score on utilisation of family planning services among respondents

Perception score (5)	Frequency (n= 365)	(%)
Negative (< 3)	22	6.0
Positive (≥3)	3.13	94.0

4.5.1 Factors which serve as barriers to use of family planning among respondents Among the factors which serve as barriers to utilisation of family planning methods among the respondents are that a high proportion (55.9%) do not want people to know their IIIV status, followed by the scar of antiretroviral drugs reaction with samily planning drugs (27.4%) (Table 4.5.1)

Table 4.5.1 Factors which serve as barriers to family planning among respondents (n=365)

		9/0
Factors	No	
Fear of untiretroviral drug interactions with family	100	27.4
planning drugs	204	55.9
Don't want people to know one's IIIV status. Culture does not permit the utilisation of	14	3.8
contraceptive services	12	3.3
Religion negates the use of contraceptives	20	5.5
Cost of contraceptive services	56	15.3
Complications from the usage		

4.5.2 Antecedent Inctors promoting the utilisation of contraceptive services among respondents

With regard to factors perceived to promote the utilisation of family planning, 21.6% of the respondents reported "its usefulness for child spacing". followed by "its prevention of unwanted pregnancy" (14 8%).

Inble 4.5.2 Antecedent factors promoting the utilisation of family planning services

among respondents

Buttonii, restructions		0/		
Antecedent factors	No	9/0		
its usefulness for prevention	54	14.8		
of utwatted pregnancy		21.6		
It's useful for child spacing	79			
Promote health of the mother	27	7.4		
Prevention of infection	19	5.2		
To stop child bearing	41	5.5		
Prevention of abortion	20			
Proximity to the house	2	.5		
Public enlightenment	2	2.2		
Financial reason	8	2.2		

^{*} Multiple responses allowed

äħ.

4.6 Relationship between socio-demographic characteristics of respondents and knowledge of contraceptive services

Among the respondents demographic characteristics, highest educational qualification was found to be statistically significantly associated with knowledge. i.ess than half of the respondents with tertiory education had good knowledge of family planning methods compared with respondents who had no formal (33.3%), secondary (26.9%) or primary education (21.7%), p=0.020 (Table 16).

Further analysis revealed that respondents' with primary education were more likely to have poor knowledge of contraceptive compared with those that had secondary and tertiary education (OR= 3.44: 95% Cl: 1.62-7.29).

Table 4.6: Relationship between socio-demographic characteristics of respondents and knowledge of family planning methods

		Knowledge		Total	Chi	p-Value
P. C. L.	Poor n (%)	Fair	Good 11 (%)		square	
	191					
Sex			10 (20 6)	61	4.8	0.090
Male	26 (42.6)	17 (27 9)	18 (29.5)	304		
Female	90 (29.6)	123 (40.5)	91 (29.9)	304		
Age			13 (28.3)	46	11.8	0.158
≤27	17(37.0)	16 (34 8)	57 (32.6)	175		
28-37	47 (26.9)	71 (40.6)	27 (27.3)	99		
38-47	31 (31.3)	41 (41.4)	11 (33.3)	33		
48-57	13 (39.4)	9 (27.3)	1 (8.3)	12		
≥58	8 (66.7)	3 (25 0)	1 (0.3)			
Educational						
status		11 (26.7)	10 (33.3)	30	15.0	0.020
Non-formal	9 (30.0)	11 (36.7) 43 (51.8)	18 (21.7)	83		
Primary	22 (26.5)	61 (36.5)	45 (26.9)	167		
Secondary	61 (36.5)	25 (29.4)	36 (42 4)	85		
Tertiary	24 (28.2)	2000				
Marital status			10 (35.7)	28	8.6	0.198
Single	11 (39.3)	7 (25.0)		292		
Married	86 (29 5)	116 (39.7)	6 (24.0)	25		
Divorce/separated	8 (32.0)	11 (44 0)	3 (150)	20		
Widowed	11 (55.0)	6 (30 0)				
Type of family			69 (30.9)	223	6.8	3.5.2
Monogamous	69 (30 9)	85 (38 1)	36 (31 9)	113		
Polygamous	35 (31.0)	42 (372)	1 (5.9)	17		
Single perenting	9 (529)	7 (412)	3 (250)	12		
Divorcee/separate	(200)	6 (50.0)				
		140(38.4)	109(29 8)	WS(100)		
Total	116(318)) 140(38-4)				

4.7 Relationship between socio-demographic characteristics of respondents and utilisation of contraceptive services

Among the relationship between socio-demographic characteristics of respondents and utilisation of contraceptive services, only educational qualification was statistically significant A higher proportion (85.5%) of respondents with primary school education used family planning methods compared to those with tertiary (80.0%), secondary (71.3%) and no family planning methods compared to those with tertiary (80.0%), secondary (71.3%) and no family planning methods compared to those with tertiary (80.0%), secondary (71.3%) and no

In addition, male respondents were less likely to utilise contraceptive services compared to their semale counterparts (OR= 0.12; 95% CI: 0.040.36).

Unble 4.7: Reintionship between socio-demographic characteristics and use of contraceptive services

Demographic	Ever used family planning		Total	Chi-	1'-Value	
	Yes	No		scluure		
-	11 (%)	n (%)				
Sex		10/16 13	61(100)	2.4	0.123	
Mnle	51(83.6)	10(16.4)	304(100)			
Female	226(74.3)	78(25.7)	30-1(100)			
Age		12(26.1)	46(100)	4.4	0.355	
27	34(73.9)	12(26.1)	175(100)			
28-37	137(78.3)	38(21.7)	99(100)	V		
38-47	77(77.8)	22(22.2)	33(100)			
48-57	22(66.7)	11(33.3)	12(100)			
≥58	7(58.3)	5(41.7)				
Educational						
qualification	10/(2.3)	11 (36.7)	30(100)	9.6	0.023	
Non-formal	19 (63.3)	12 (14.5)	B3(100)			
Primary	71 (85.5)	48 (28.7)	167(100)			
Secondary	119 (71.3)	17(20.0)	B5(100)			
Tentary	68 (80.0)					
Marital status		6(21.4)	28(100)	5219	1.56	
Single	22(78 6)	68(23.3)	292(100)			
Married	22-1(76.7)	5(20.0)	25(100)			
Divorce/separated	20(80.0)	9(45.0)	20(100)			
Widowed	11(55.0)					
Type of family		50 (22 4)	223(100)	1.6	0.645	
Monogarnous	173 (77.6)	29 (25.7)	113(100)			
Polygamous	84 (74.3)	6 (35.3)	17(100)			
Single parenting	11 (64 7)	3 (250)	12(100)			
Divorcedeparate	9 (750)	3(-3-3-				
		24.1	100			
Total	759					

4.8 Relationship between current use of family planning and sociodemographic characteristics of respondents

Considering the relationship between the socio-demographic characteristics of respondents and current use of family planning methods, age and sex were statistically significant. A high proportion (64.6%) of respondents in the age range of 38-47 years were currently using family planning methods compared to those in the age range 28-37 (58.9%). \$27(58.7%), and 48-57 (42.4%) years, p= 0.000 (Table 4.8).

Table 4.8: Relationship between suclo-demographic characteristics of respondents and current use of contraceptive services

Demographic Variables	Current use of family		Total	Chl P-Value Square	
	Yes n (%)	No n (%)			
Sex Male Female	49(80.3) 159(52 .3)	12(19.7) 145(47.7)	61(100) 304(100)	0.000	0.00
Age 27 28-37 38-47 48-57 ≥58	27(58.7) 103(58.9) 64(64.6) 14(42.4) 0(0)	[9(41.3) 72(41.1) 35(35.4) 19(57.6) 12(100)	46(100) 175(100) 99(100) 33(100) 12(100)	0.866	0.00
Educational qualification Non-formal Primary Secondary Testiary	13 (43.3) 49 (59.0) 90 (53.9) 56 (65.9)	17 (56,7) 34 (41.0) 77 (46.1) 29 (34.1)	30(100) 83(100) 167(100) 85(100)	0.330	0.12
Marital status Single Marited Divorce/separated Widowed	16(57.1) 169(57.9) 17(68.0) 6(30.0)	12(42.9) 123(42.1) 8(32.0) 14(70.0)	28(100) 292(100) 25(100) 20(100)	0.248	0.61
Type of family Monogamous Polygamous Single parenting Divorcec/separates	129 (57 8) 61 (54 0) 10 (58 8) 8 (66 7)	94 (42.2) 52 (46.0) 7 (41.2) 4 (33.3)	223(100) 113(100) 17(100) 12(100)	0.000	0.81

Table 4.8.1: Relationship between knowledge of family planning and utilization of contraceptive services

		Knowledge			Total	P-Value
Variables		Poor n (%)	tinir 11 (%)	Good n (%)		
Ever	Y'es	80 (28.9)	108 (39.0)	89 (32.1)	277 (100)	0.08
used family planning	No	36 (40.9)	32 (36.4)	20 (22.7)	88 (100)	
Current	Yes	60 (28.8)	84 (40.4)	G4 (30.B)	208 (100)	0.38
use of family planning	No	56 (35.7)	56 (35.7)	45 (28.7)	157 (100)	

4.9 Relationship between socio-demographic characteristics of respondents and perception of utilisation of contraceptive services

Analysis of the relation between the socio-demographic characteristics of the respondents and their perception of utilization of contraceptivo services, showed family type was statistically significant. Respondents raised by a single parent had the highest proportion (11.8%) of those with wrong perception of utilisation of family planning methods compared to those in the polygamous (10.6%), monogramous (3.6%) and in a divorced/separated family (0.0%), p= 0.040 (linble 4.9)

Table 4.9: Relationship between socio-demographic characteristics of respondents and perception to utilisation of family planning methods

Demographic Variables	Perception		Total	Chi- P-Vulue		
	Negative	Positive		squire		
	u(%)	n(%)				
43.						
Sex	2 (2 2)	59 (96.7)	61	1.0	0.323	
Male	2 (3.3)	284 (93.4)	304			
l'emale	20 (6.6)	204 (73.4)	2017			
\ge	1 (0.7)	42 (91.3)	46	4.2	0.384	
20.77	4 (8.7)	167 (95.4)	175	**		
28-37	8 (4.6)	93 (93.9)	99			
38-47	6 (6.1)	29 (87.9)	33			
48-57	4 (12.1)	12(100.0)	12			
258	0 (0.0)	12(100.0)				
Educational						
qualification		28 (93.3)	30	2.0	0.563	
Non-formal	2 (6.7)	80 (96.4)	83			
Primary.	3 (3.6)	154 (92.2)	167			
Secondary	13 (7.8)	81 (95.3)	85			
Tentiary	4 (4.7)	01 (33.3)				
Marital status		27(96.4)	28	0.6	0 384	
Single	1 (3.6)	273 (93.5)	292			
Married	19 (6.5)	24 (96.0)	25			
Divorced/separated	1 (4 0)	19 (95.0)	20			
Widowed	1 (5.0)	19 (33.0)				
Type of family		215 (96.4)	223	8.3	0.040	
Monogan out	8 (3 6)	101 (894)	113			
Polygamous	12 (10.6)	15 (88.2)	17			
Single parenting	2 (11.8)	12 (100 0)	12			
Divurced separated	0 (0.0)	15(100.0)				
		94.0	100			
Total	60	7-0				

CHAPTERFIVE

DISCUSSION, CONCLUSION AND RECOMMENDATIONS

5.1 Socio-demographic characteristics of respondeots

The age of respondents ranged from 1 8-58 years with a mean age of 36.6 ± 8.9 years; an age structure which buttressed the fact that HIV/AIDS affects all populations irrespective of age. The majority of PLWHA in the study were in the age group 18-47 years, implying that most of them were in their most productive and reproductive years. This finding is consistent with that of Anyebe, Hellandendu and Gyong (2013) which revealed that the majority (72.7%) of PLWHA in their study were in the age group of 15 to 44 years (with a mean age of 38.3 years). Other studies have also implicated the productive age group in HIV prevalence. Adekeye (2005) reported that adolescents and youths remain the major propellers and casualties of the pandemic, while Gallagher (2002) earlier reported that the HIV infection rate is highest among individuals from 19 to 35 years. According to him, this portends danger for the population structure as the younger people will die, leaving behind orphans who are usually cared for by older ones who are themselves dependents.

The majority of the respondents in this study were female because the clinic runs PATECT services. In line with this finding, INVN-ACTION (2009) reported that the most vulnerable services. In line with this finding, INVN-ACTION (2009) reported that the most vulnerable services. In line with this finding, INVN-ACTION (2009) reported that the most vulnerable segments of the population, that is, women and young children, constitute the majority of segments of the population, that is, women and young children, constitute the majority of those who those infected with the virus, Itellandendu (2001) referred to vulocrable groups as 'those who those infected with the virus, Itellandendu (2001) referred to vulocrable groups as 'those who are politically and economically disadvantaged" and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged and linked the Propagation of HIV/AIDS to are politically and economically disadvantaged.

Substitute in developing countries. According to him, political and economic situations that substitute in developing countries. According to him, political and economic situations that substitute in developing countries. According to him, political and economic situations are politically and economic situations that substitute in developing countries. According to him, political and economic situations that substitute in developing countries.

It is not surprising that most of the respondents were from the Yoruba ethnic group since the study was conducted in Ibadan, a city predominantly inhabited by this ethnic group.

Comparable to the result of this study, the NDHS reported an almost equal proportion of Muslims (45%), Christians (54%) and traditionalists (1%). There was an affinity for monogemy among the respondents, a deviation from the traditional value system of polygyny that had hitherto been common in Nigeria and sub-Saharan Africa but which has persistently declined substantially (Hayase and Liaw, 1997). This decline in polygyny was also reported in the NDHS with regional differences in its practice and more prevalence in the rural than in urban areas (NPC and ICF Macro, 2009). The finding of the study by Anyebe et al. (2013) is consistent with that of this study that the highest proportion of PLWHA had secondary education.

5.2 Family planning awareness, use and accessibility

All the participants had heard of family planning, a finding which is consistent with the result of the study conducted by Berhancet al. (2013) which revealed that all their participants were aware of at least one modern contraceptive. The authors also found that the most commonly used contraceptive method was the condom, a finding which is the same as in this study. The condoms are a type of conunceptive that offer dual protection; apart from being effective in preventing pregnancies, they also help to prevent STI/HIV

The result that one-third (33,4%) of the respondents heard about FP from health workers implies that some form of health worker-PLWHA health education was ongoing. This is a notable finding because it is imperative for PLWILL and indeed the general populace to have accurate information and understanding about their health status; this onus invariably lies on health workers

Generally, the prevalence of family planning use among the respondents in this study was quite high when compared with that of the general population (NPC and ICF Macro, 2009). This finding is consistent with the 87.3% prevalence of FP use that was reported by Egessa (2010). The different methods of FP currently being used by respondents were also similar to that reported in Egessa's study and they included both the modern (11)D, constant injectables. implants and pills) and the implificant methods to suppost this trend, the National Guidelines for l'amily l'hunning Services (2011) in flethanc et al (2013) revealed that the prevalence or modern contraceptives in l-ITV-positive women is expected to become higher than in the general population to avert vertical and horizontal transmission of the virus. The commonly used methods of contraception among respondents at the time this study was conducted were condoms and injectables; a finding which is consistent with that of Mutiso, Kinuthia and Qureshi (2008) and Nattabi et al. (2011). The choice of the condom can be explained by the convenience with which the condom can be procured over the counter (cast accessibility and availability), while the choice of injectable contraceptives may be explained in terms of the privacy, women only have to go to a service delivery point every two to three months and can do so without their partner's knowledge, should they disapprove. The lower percentage of use of hormonal contraceptives compared to condoms can be explained by the side effects that often accompany their use.

In sub-Saharan Africa, the epicenter of the HIV epidemic, effective IIIV prevention and care strategies for PLWIA remain a challenge. It is therefore an encouraging finding that most of the respondents in this study reported that they had access to family services with a high proportion reporting access to condoms in the clinic. This finding indicates that there is no proportion reporting access to condoms in the clinic. This finding indicates that there is no proportion to FP services delivery for PLWIA. Access to FP is of Breat significance among aversion to FP services delivery for PLWIA. Access to FP is of Breat significance among aversion to FP services delivery for PLWIA. Access to FP is of Breat significance among PLWIA for reasons of unplanned pregnancies, and negative effects of HIV. In addition, lack health, which leads to poor obstetric outcomes and rapid progression of HIV. In addition, lack health, which leads to poor obstetric outcomes and rapid progression of HIV. In addition, lack health, which leads to poor obstetric outcomes and rapid progression of HIV. In addition, lack health, which leads to poor obstetric outcomes to new paediatric HIV infections through vertical of FP access for PLWIA contributes to new paediatric HIV infections through vertical transmission. There is thus a vicious cycle of unregulated fertility, re-infection of HIV and transmission. There is thus a vicious cycle of unregulated fertility, re-infection of HIV and transmission. There is thus a vicious cycle of unregulated fertility, re-infection of HIV and transmission. There is thus a vicious cycle of unregulated fertility, re-infection of HIV and transmission. There is thus a vicious cycle of unregulated fertility, re-infection of HIV and transmission. There is thus a vicious cycle of unregulated fertility and infections through vertical transmission.

Findings from this study revealed a significant relationship between level of education and use of FP Significantly, more respondents who had formal education. This result is consistent with that of Rob et al. to those who had only non-formal education. This result is consistent with that of Rob et al. (2007) and Naturbi et al. (2011) Natiobi et al. revealed that 42.9% of PLWHA who had (2007) and Naturbi et al. (2011) Natiobi et al. revealed that 42.9% of PLWHA who had (2007) and Naturbi et al. (2011) Natiobi et al. revealed that 42.9% of PLWHA who had reported for those who had no formal education.

5.3 Knowledge of family planning

Only 29.9% of respondents in this study had good knowledge of FP; a finding which is contrary to that of Ikerra (2014) which demonstrated a high leve! of knowledge among 11[Vpositive women. Noteworthy is the finding that the majority of respondents knew that contraceptives are drugs used to prevent or delay pregnancy. According to Harvey (2005) and WHO (2006), contraceptives are drugs used to achieve family planning which is the means of avoiding pregnancy despite sexual activity

Consistent with the finding of this study in which condoins (male and fernale) (76.7%) were the most commonly known method of family planning is the result of the study conducted by Nattabi et al. (2011) which showed that most PLWHA knew about the male condom. Other commonly known incihods reported by Natiobi et al. that were consistent with this study were injectables and pills.

Only one-third of the respondents knew that vasectomy is a method of FP that is irreversible (34.8%) and meant for men only (34.0%). According to Sokai and Labreeque (2009), modern vascolomy techniques were developed as a component of family planning services in the 1960s and 1970s. Its effectiveness may be defined by the absence or occurrence of pregnancy (contraceptive effectiveness) or by the tesults of semen analyses (occlusive effectiveness). It is a surgical permanent method of contraception which is exclusively personned on men and is simple, fast, safe, less expensive, requires little time off work and necessitates local rather than general unaesthesia (Trussell, Lalla and Doan, 2009; Sharlip et al. 2012). The operation is done to keep a man's speem from going to his penis, so his ejaculate does not have any sperm in it that can scrilize an egg (Center for Disease Control and Prevention, 2014)

It is noteworthy that the majority of respondents in this study knew that the male and second condoms cannol be used at the same time. According to the World Health Organization and UNAIDS (2000), male and sentale condoms should not be used together or simultaneously as friction between the plastic and the later rubber can result in either product failing. The friction occurs due to inadequate hubrication resulting in either in both coolous slipping or

tearing, and the outer ring of the semale condom being pushed inside the vagina; with such occurence, the essence of the contraceptive use may be lost.

Knowledge of family planning was highest among PLWHA who had tertiary education. This finding indicates that education has on important role to play in being knowledgeable about FP probably because people who are educated can read and understand on their own without being fully dependent on obtaining information from health workers.

5.4 Perception of family planning utilisation

It is noteworthy that most of the PLWHA in this study perceived the use of family planning positively. One important reason as asserted by Ikema (2014) could be the positive living counselling that PLWHA generally receive on the importance of family planning. Another reason could be the fact that people receiving HIV treatment and care have more regular contact with health care professionals as a function of the clinical follow-up required in monitoring the licalth of IIIV-positive individuals. Duting these regular clinic visits, reproductive and sexual health issues are raised and the opportunity to discuss and commence use of contraception is presented.

Although almost sixty percent of the respondents disagreed with the statement that 'they cannot go for FP because they do not want their IIIV status to be known by other people. It is however quite disheartening that many of them (41.6%) would not take up FP because of their IIIV status. The reason for this perception is not unrelated to the stigma associated with being IIIV positive.

Even though concerns for health and side effects are two of the most commonly expressed reasons for non-use and for disconlinued use of contraception (The Population Council, 2012), it is heartening that the majority of the participants in this study perceived that family planning is safe to use and that the fear of side effects campa preclude their use of family Planning. With adequate imining of service providers, access to appropriate equipment and drugs and well informed users, side effects are reportedly rare (The Population Council 2012)

More respondents who were in monogamous families and those who were divorced/separated had positive perception towards utilization of FP compared to those in polygamous families and single parenthood. It is noteworthly that people who are divorced or separated perceive FP use positively because they may be sexually active without being in a stable relationship and would require contraceptives to protect themselves from sexually transmitted infection. On the other hand, it is dismal that those who practice polygamy and single parenting perceive FP negatively. These categories of people may be at greater risk of infection because they are likely to be involved in sexual encounters with more than one person

5.5 Factors influencing use of family planning

Only a few of the respondents reported that their culture does not permit the use of family planning. To buttress this finding, llipasu ct al. (2009) reported a trend in the decline of cultural resistance to the utilization of contraceptives.

lliyasu et al. further stated that presently with the HIV/AIDS epidemic. the resistance is slowly giving way and HIV/AIDS has evidently increased the use of contraception. For instance, the proportion of IIIV positive women using modern contraceptives was 34.5% compared to 17.5% among IIIV-negative women in Yaoundé, Cameroon (Ross et al., 1999) and 20.3% compared to 14.8% in Ndola, Zambia (Rutenberg, Biddlecom and Kaona, 2000) This increased contraceptive use was for Illy-infected women to meet their objective of reducing their family sizes (Hiyosu et al., 2009).

It is dishearening that more than half of the respondents had concerns about disclosure of their IIIV status which may be accessitated if they decide to utilise family planning services. This concern implies the existence of stigme associated with ITIV/AIDS. This finding is confidenciate to the health of PLWIA. Particularly women who are pregnant or considering pregnancy Masi (2007) stated that these women face stigms and discrimination from health care workers, such as not receiving supportive care, hence they are not able to freely make informed choices on contracefulon Fear of side effects and cost of stocuronent were also noted as hindrance to lamily planning unlisotion in this study as well as the study combined by lliyanu et al (2009).

Contrary to the finding in which few (5.2%) respondents stated that efficaciousness of family planning in preventing infection is a factor that promotes family planning use, the study conducted by Thwala (2011) revealed that the majority (83%) of PLWHA use family planning to prevent infection. Thwala (2011) and Cohen (2008) further stated that the right reason that should motivate PLWHA to use contraceptives is to prevent re-infections and new infections to partners. More (14.8%) respondents stated that the effectiveness of family planning for pregnancy prevention is a factor that promotes its utilization compared to those that reported its effectiveness in the prevention of infection (5.2%). The study by Thwala (2011) similarly revealed that 12% of the respondents used contineeptives because they wanted to prevent getting pregnant. To support this finding, Mitchell and Stephens (2004) stated that PLWIIA may use contraception but not for preventing infection but to prevent pregnancy. This enlegory of respondents who choose contraception only to prevent pregnancy raises concern as they may not fully protect themselves and may not choose the right contraception methods for their lilly status.

Oncethird of the PLWIIA in this study reported that FP's usefulness for child spacing and to stop child bearing nhogother promotes its utilization. Not desiring to have children nay strongly influence the use of contraception by increasing its uptake. The bealth of the mother was also reported as one of the foctors promoting use of FP among PLWHA; a linding which may be related to the need to prevent pregnancy from occurring thereby favouring FP uptake. It is important therefore that FLWIIA, particularly discorders couples, are equipped to make informed choices on the appropriate FP method to use based on their health status.

5.6 Implications of findings for reproductive health education

The results of this study revealed a deficit in knowledge about family planning. The promouon of family planning services among HIV-posture people can prevent infection. STIs including HIV, and pregnancy Moreover, if a couple chooses a barrier octhod contraceptive use will prevent or slow down transmission of the vitus from one partner to the other. Information about contraception is a major determinant of positive attitude towards family planning methods adoption and sustained contraceptive use Hence, bearth workers are required to educate PLWHA on family planting through counselling Family planting Contrary to the finding in which few (5.2%) respondents stated that efficaciousness of family planning in preventing infection is a factor that promotes family planning use, the study conducted by Thwala (2011) revealed that the majority (83%) of PLWHA use family planning to prevent infection. Thwala (2011) and Cohen (2008) further stated that the right reason that should motivate PLWHA to use contraceptives is to prevent to infections and new infections to pattners. More (14.8%) respondents stated that the effectiveness of family planning for pregnancy prevention is a factor that promotes its utilization compared to those that reported its effectiveness in the prevention of infection (5.2%). The study by Thwala (2011) similarly revealed that 12% of the respondents used contraceptives because they wanted to prevent getting pregnant. To support this finding, Mitchell and Stephens (2004) stated that PLWHA may use contraception but not for preventing infection but to prevent pregnancy. This category of respondents who choose contraception only to prevent pregnancy raises concern as they may not fully protect themselves and may not choose the right confraception methods for their HIV status

One-third of the PLWHA in this study reported that FP's usefulness for child spacing and to stop child bearing altogether promotes its utilization. Not desiting to have children may strongly influence the use of contraception by increasing its uptake. The health of the mother was also reported as one of the factors promoting use of FP among PL WHA; a finding which may be related to the need to pievent pregnancy from occurring thereby favouring FP uplake It is impactent therefore that PLWHA, particularly discordant couples, are equipped to make informed choices on the appropriate Fly method to use based on their health status,

5.6 Implications of findings for reproductive health education

The results of this study revented a deficit in knowledge about family planning. The promotion of sunity planning services among IIIV-positive people can prevent infection. STIS including tilly, and pregnancy. Morcover, if a couple chooses a barrier method, contraceptive use will prevent or slow down transmission of the views from one partner to the uther, Information about contraception is a major determinant of positive attitude towards family planning encloses adoption and sustained contraceptive use. Hence, bealth workers are required to educate PLWILA on family planning through counselling. Family planning programme in the hospital in order to overcome the obstacles associated with stigms and discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning. Leon et al. (2001) stated that discrimination which hinder the utilisation of family planning.

Only one-third of the respondents were currently using condoms. Condoms provide dual protection which is particularly needed by PLWHA. They are effective in protection against protection which is particularly needed by PLWHA. They are effective in protection against pregnancy and if used consistently and correctly they are also the most effective means of pregnancy and if used consistently and correctly they are also the most effective means of preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the sexual transmission of HIV (Mitchell and Stephens, 2004). Limited side effects preventing the most effective means of the most effective means of the most effective means of the condoms.

As stated by Delvaux and Nostlinger (2007), protection against both unwanted pregnasey and STIs is referred to as dual protection. Condoms are the mainstay of dual protection in second inethods. The use of dual methods for conunception inetrases combination with other preclades. The use of dual methods for conunception inetrases combination for couples, as men are often unwilling to use condoms, this second inethod then provides protection against unwinted pregnancy. The dual protection method should be provides protection against unwinted pregnancy. The dual protection and who are aware of promoted especially for PLWIA who have received HIV education and who are aware of their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception is reported to their elevated risk of contracting STIs. The use of dual methods of contraception and who are aware of promoted risk of contracting STIs. The use of dual methods of contraction and who are aware of the promoted risk of contracting STIs. The use of dual methods of contraction and who are aware of the promoted risk of contracting STIs. The use of dual methods for contraction and who are aware of the promoted risk of contraction and who are aware of dual methods for contraction and who are aware of the promoted risk of contraction and who are aware of the promoted risk of contraction and who are aware of the promoted risk of contraction and who are aware of the promoted risk of co

method. This challenge can be surmounted by educating respondents through emphasis on the need to bear some minor inconvenience in order to stay alive.

A reproductive health study conducted by WHO (2008) revealed that due to the lack knowledge on the available contraceptive methods, people are not able to make informed choices as far as contraceptives are concerned, resulting in fear to utilize them. However, Kansen. Vaughan and Walter (1992) asserted that knowledge has little elfect on risk reduction strategies. Results indicated that a high degree of knowledge of contraception was present among adolescents but they lacked the social skills of communication. negotiation and personal control in Sexual situations. Similarly, in a study conducted in Kenya by Sama et al. (2008), people on highly active anti-retroviral therapy (HAART) reported that knowledge of their HIV status did not act as a protective factor for reduced sexual risk behaviour. The implication of this - especially among adolescents - is a continuous spread of lilly among positive persons and even to persons who we negative for the virus Ilence, life building skills that will emphasize skills such as refusal, negotiation, assertiveness, decision making and communication should be incorporated into the school cutticulum in order to stop this Irend

This study investigated the family planning awareness, knowledge and accessibility whong PLWHA at the PEPFAR clinic in Adeoso Maternity Hospital, Ibadan, It also explored the perception of use, pattern of use and factors influencing use of family planning All the respondents were aware of family planning, the level of knowledge was majorly fair and poor and family planning was generally occessible to the respondents.

Most of the respondents but positive perception towards utilisation of family planning. majority had used a family planning method and condom was the predominant method ever used as well as currently used Factors promoting the utilisation of family planning services were its effectiveness for child spacing, prevention of pregnancy and halting of child bearing altogether. Fear of 1914 status disclosure, anti-retroviral drug interaction with family planulage drugs and side effects were the hindering factors in family planning utilisation among the i espondents.

5.8 Recommendations

- 1. Contraceptive education that will improve respondents' knowledge and address the ractors hindering the utilisation of family planning, should be comprehensively integrated into the anti-retroviral therapy programme in the hospital both for individuals and group. The large number of PLWIIA attending the PEPFAR clinic weekly is an epperannty that will help to collectively teach a large number of them simultaneously while ind, name education will provide opportunity for particular focus on each client's needs. The education should also underscore factors that promote the utilisation of family planning
 - 2. Due to the documented stigma and discrimination associated with being positive for HIV in this study, continuous education of the general public is required so that they are encouraged to associate freely with PLWHA.

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APPENDIN I

QUESTIONNAIRE

UTILISATION OF CONTRACEPTIVE SERVICES AMONG PEOPLE LIVING WITH HIV/AIDS AT THE PRESIDENT'S EMERGENCY PLAN FOR AIDS RELIEF CLINIC ADEQYO MATERNITY TEACHING HOSPTIAL, IBADAN, NIGERIA

Dear respondents,
Good day, I am Giwa Bushipu Abiola. I am a student of the Department of Health Promotion and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Education, the Faculty of Public Health, College of Medicine, University of Ibadan and Ibadan

Your participation is voluntary, also note that there is no wrong or right answers to the question, you are being asked. Your responses will be kept confidential as no name is required in filling the questionnaire. Please give honest responses to the questions I will ask you as much as possible without holding back any information.

You are free to ask questions as the interview progresses.

Thank you.

	To we have a second sec
	DATA, Please tick the appropriate answer.
DEMOCUALISC	DV14' Lega
SECTION Y - DEPROPER	

SECI	JON Y = DESTOOT
1.	Age in years (Inst birthday)
2	Sex Monied (3)Divorced/Separated
3.	Marilal status (1) Single (2)
	(4) Widowed (2)
4.	Educational qualification
	(1) No formal education (2) Primary School
	(3) Secondary school (4) University degree
	(5) Others (Specify)

5	Occupation
	(1) Civil Servant (2) Self employed (3) Full lousewife
	(4) Unemployment
6	Religion
	(1) Christianity (2) Islum (3) Traditional (4) Others (specify)
7.	Ethnicity (1) Yoruba (2) Hausa (3) Igbo (4) Others
8.	Type of Family: Monogamous Polygamous (3) Single Parenting
	(4) Divorcee/Separated
Secti	on B. Knowledge of PLWILA on Contraceptives
9 Li	st five methods of family Planning you know?
	Oml Pills Condoms (Male/Fe mak)
	4 Injectables
	Vascolomy/BTL
10 0	Contracentive are drugs or object used to prevent or delay pregnancy?
	Yes Yes
	No
11 1	Vasectomy is a family planning methods that is reversible?
110	Vasectomy is a family planting the
	Yes No
10	endhad formen only?
12,1	Vascelomy is a family planning method formen only?
	LYCS //
	No.
12	Male and female condom can be used at the same time
13,	Male and female condom can
	Yes No

Section C -Perception of PLWHA on utilisation of available family planning method 14. I can't use family planning because I am afraid of the side effect. Agree Disagree Undecided 15. I don't use family planning because I am not sure of it safety. Agree Disagree Undecided 16. I can't go for family planning because I don't want people to know my IIIV status Agree Disacree Undecided 17. I can't use family planning methods because my religion does not permit it Agree Disagree Undecided 18. I can't use family planning methods because my culture does not permit it Agree Disagree Undecided Section D. Proportion of Pl. Will using Contraceptives 19. Have you heard of family planning before? Yes No 20. Have you ever used any family planning method before? Ycs No 21. Which meiltod have you used Florious Y? 1 TUD Ond controceptives pills Barrier method: condonts (h faic and Female) 3 4 Injectables Natural method 5

Insplant

Sterilization

6

22. Which method are you using presently?

nich me	thod are you using presently?	1
1	IUD	
2	Oral contraccetives pills	
3	Barrier method: condoms (Male and Female)	
4	Injectables	
5	Natural method	14
6	Implant	
7	Sterilization	

23. What are your sources of information?

al ols	NOUL Sources of information.
1	Radio
2	Television
3	Health worker
4	Friend

24. Is family planning accessible to PLWHA in this clinic?

mily planning access	TOTO
Yes	
No	

25. What types of methods are available in the clinic? Tick as many as possible.

ial lyp	es of methods are available difficulties
1	Dispensing of condom (male & female)
2	Pills
13	Injectables
4	TUCD insertions
15	linelant

3 promoting utilisation of family planning among PLWIA

Section E. Bactors promotin	g united family planning service?
	I THE TO BILLINGS TO SEE
	will make you to con-

Section F-Factors hindering a Illisation of family planning among PLW HA

27 Fear of anti-retroviral drug interactions with family planning drugs makes me not to be interested in adopting a method

ico (ii) D	Tobinip	
Yes		
No		

opic to know my lify status 28. I would

ould not want	man), beoby
Yes	
No	

G. Co.	valture does not permit the utilisation of Family planning method. Yes No
	eligion negates the use of contraceptives. Yes No
	Yes No
	Ves No

33

APPENDIX H

INE BEERE

LILO AWON ONA FIFE TOSI OMO BIBI LARIN AWON HINGBE PELU AREA KOGBOOGUN NI II I-ITOJU PEPFAR TI II E IWOSAN AKEKO AGBEILI NI ADEOYO, IBADAN

Oludalnın tooto,

Mo kiyin pupo, otuko mi ni GIWA Bushtrat Abiola, akeko igboye-keji lati Imo Ipolongo Ilera Eda, ti Eku Ilera Gbogbogbo, ni ilnifasiti ti Ilu Ibadan.

Mo provin latikopa ninu iwadi oke yi. Idi iwadi yi ni lati mo hi wonse nlo awon ona lile latikopa ninu iwadi oke yi. Idi iwadi yi ni lati mo hi wonse nlo awon ona lile latikopa ninu iwadi oke yi. Idi iwadi yi yo ranwalowo fun ile-iwosan akeko aghebi ni Adeoyo. Ibadan. Awon abajade iwadi yi yo ranwalowo fun piposi ni gbigba ati lilo eto [IFETOSI OMO BIB] larin awon ti wongbe pelu aran kogboogun

Didasi yin je nlinulindo se, ki esi nio pe kosi awon idahun ti kotona abi otona si awon ibeere a ba bi yin. Awon idahun ti e ba sunwa yio wa ni ipamo, atipe a ko nilo oruko yin kiko sun twe yi E jowo esunwa ni idahun tooto si okokao awon ibeere u no ma biyin talai si ikankan pamo.

E si ni aniani lati bere ntohatuyin loju bi iwadi yi se ntesiwaju

Alodupe pupo.

EKA A: IDANINIO OLUKOPA IWADI
E Jowo e manki idubun ti o ba okokan awon ibeere isale yl mu.
Omo the state (at OIG (b) toxoja)
In Eds wo myin? I. Okuman Moulotwhayawo
4 Opo biorin/kunna Nghepo 2 lleine alalaher
4 Opo biozin/kunrin Nghepo 4 lie iwe wo ni elo? 1 Nkolo ile-iwe 4 lie-iwe gigs 5 Omin (1 line) 4 lie-iwe gigs 5 Omin (1 line)
4 lle-tive gigs 5 Omir (allare) wo ni e ose 1 () size ijoka
With the Control of the Lands o

6.	Esin	wo ni esin ti e nsin? I. Igbagbo Musulumi DEsin abalaye
		miran (sc alaye)?
		wo niyin? 1. Yoruba 2 Housa 3. Igbo 3. Omiran (se playe)
8.	linc	bi yi/ıru molebi yi? 1 Oko kan ati aya kan 📑 Oko kan ati aya pupo 🗀
		3. Nikan toju omo J. Tikora/ituka
		: IMO AWON TIN GBE PELU ARUN KOGKOOGUN LOKI
		SOMOBIBI
	1	a von ona sctosomobibi marun ti e mo?
		l'i dokita ba ti nkan bo oju ile-omo
	2	Lilo awon oogun onihoro ti wonfi
		ndena oyun nini
	3	Lilo ora idabobo okunzin'obinrin
		lati dena oyun nini
	4	Ti obinrin ba ngun abere ni
		igbadegba ti ko si ni ni oyun fun
		osu meji abi meta
	5	Ti dokita ba ti glæ apo omo jede
10	Feto	somobibi je awon oogun abi nkan ti wan ma nio lati dena abi da oyun mini duro?
		somobioi je awon oogun abi indat ti vod samen in ali in al
		Becko
11.	Gbig	sbe apo omo jade je eto fetosomobibi toni idasada
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	C	lceko ()
12	Con	nkan ti opese omo je eto idena omo bibi sun okumin nikan?
	Cale &	seni
		keko
17.	مانا	oro idabobo okunrin ati obirom lati dena o) un nimi se lo mi ekan mas
	13	cen!
	[]3	ecto

EKA D: PIPOSI AWON TO NLO AWON OHUN IDENA OYUN LARIN AWON TI NGBE PELU ARUN KOCBOOGUN NI ILEJITOJU

14. Nje etigbo nipa iscto si omo bibi ri?

1	Beeni
	Becko

15. Nje etilo ikankan ninu ona iseto si omo bibi ri?

	10 11
liceni	
l3ccko	

16. Itu one wo ni ctilo lune sevin?

u	מחס	wo ni ctilo laipe seyin?	
1	1	Ti Dokita ba ti nkan bo oju ile-omo	
ı		obinanti ko si ni ni oyun	
ı	2	Life awon oogun onihore ti wonsi	
ì		ndena ovun nilli	
	3	Lilo om idabobo okunnin obinsin	
		Lati does over AM	
		The part of the pa	
		igbadegba ti ko si ni ni oyun fun	
		l come maii ahi McIn	
	5	Lilo eto seto so mobi bi ti ibile	
	6	Ti dokita ba fi nkan sinu apa eniyan	
		Le Kogi III III V	
	17	Sise ise abe fun eniyan i kosinile ni	
	1	oyun/bi omomo	
	-		

17. In one FIFFTOSI OMO BIBI wo nie nio jowojowo?

U	Ona FIFE'I	OSI OMO BIBI WO III E IIIO
1	, , , , , , , , , , , , , , , , , , ,	Ti Dalita Da Il Alkan So Sy
Н	1	obinrin ti ko si ni ni oyun
1		obinrin il kontinuo ii wonfi
	2	Lilo aven oogun oniharo ii wonfi
J	3	Illo on idabo bo onthing
		late dens oyus nini
		Ti obinin ba nguri abare ni
	4	li obilitati ka si ni ni oyun ida
		igbodegba ti ko si ni ni oyun fun
		OSU MELI DOI
	5	I ile cto (etasomobili ti ibile
	6	Ti dokita ba il inchias mi
		If dokita be fi nkan sind oppositions in the color of the
	7	Sino i she fun entity to him the entity
		oyun/bi omo mo
	Name of Street, or other Designation of the last of th	Oyun Or Shirt

18. Nibo ni eti gbo/mo iru ona ti e nlo yi?

1	Ori redio	
2	Ori telilisan	
3	Odo onise eti ilem	
4	Enu oii	



19. Nje eto setosomobibi wa fim awomingbe pelu anm kogboogun mule-noju yi bi?

Beeni	
Becko	

20. lru eto idena oyun wo ni anfam re wa ni ilw stoju yr? Maaki owon eyr u o ba ba ibeste re

u.			
		Lilo ora idabobo okumin/obimin	
		lati dena oyun aini	
2	2	Lilo awon oogun oniboro ti wonfi	
		- ส์อาจ ดูบุเก กูโกโ	T
	3	Ti obiniin ba ngun abere m	
1		igbadegba li ko si ni ni oyun fun	
Н		Li mela	
	4	Ti Dokita ba ti nkan bo oju in-dano	
Н		Le ei ni ni Oftu	
H	5	in delies by fi nkan sinu po	
		ti in obinin be kosi ni ni opun	
54			-

FRA E: FRO AWON II NGBE PELL ARUN KOGBOOGUN LORI LR O AWON
1 TO IFI TOSI OMONIBI

21 Nkolelo eta Teta amabili era e va re nhami.

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Farmo	
Nkofaramo	
Nkoleso	

22 Nkilo eto setesomolubi tompe nkomo bi ose dara si.

ing 610 letespitie	
Fammo	
Nkalaraino	
Nkoleso	

2). Nho le le sui eto setosomobib l'origie n'anse ku amon enigran ki o mo ipo kelloro si un kombini eto setosomobib l'origie n'anse chi par ki o mo ipo kelloro si un kombini eto setosomobib l'origie n'anse chi par ki o mo ipo kelloro si un kombini eto setosomobib l'origie n'anse chi par ki o mo ipo kelloro si un kombini eto setosomobib l'origie n'anse chi par ki o mo ipo kelloro si un kombini eto se chi par chi par ki o mo ipo kelloro si un l'anno chi par ki o mo ipo kelloro si un ki o mo ipo kelloro si un chi par chi pa

ko	gbogbun mi	
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	Nkuleso	

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1	kofaramo
	ikoleso – – – – – – – – – – – – – – – – – – –
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	Vkolaramo
	Vkoleso
	AWON OHUN IDENA SI LILO AWON ONA FIFETOSI OMO BIBI LARIN AWON TI NGBE PELLI ARIN KOGBOOGI Non eso yir, kinni ole mun vin lo eto fitasomobibi?
10000	THE CANON ON A FIFFTOSI OMO BIBI LARIN
AE	AWON NKAN TI ORANLILO AWON ONA FIFETOSI OMO BIBI LARIN
lben	lilo awon oogun atun kogbogun pelu ti idena oyun mua mi latimani ifesi okankan
	fissetosomobibi.
F	Beeni
Ī	Becko
•	
· nko	se ki enikankan mo ipo aran kogbogun mi
	Beeni
	Beeko
· As	mi koli ona lilo eto tsetosomobili sile
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APPENDIX III

ETHICAL APPROVALLET HER

1111 (111018

TO I I PHILIPPE ...

MINISTRY OF HEALTH DEPOSITION OF THE STATISTICS INVISION

PRIVATE NAME OF STREET STREET STREET

Your Ref. No. All communications should be addressed to the Humanital Committeener quality Our Ref. No. AD 13/ 479/7/11. The Principal Investigator. Department of Health Promotion and I discation. Faculty of Public Health,

15°May.2013

University of Ibadan, Attention: Giva Bashirst A.

Chical Oppical for the huplane of mural roll Records Lancoal In Ore state

This acknowledges the receipt at the contract benefit Living with Little the "Villization of Frankly Planting S. I him. Respects the Nigeria."

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